

Application Serial No. 10/594,466
Reply to office action of July 1, 2009

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Amendments To The Claims

The listing of claims presented below will replace all prior versions and listings of claims in the application.

Listing of claims:

1. (original) A Digital Television (DTV) receiver, comprising:
 - a receiving unit for receiving a transmission signal including general data and robust data and converting the transmission signal into a base-band signal;
 - an equalizing unit for determining a symbol level of the transmission signal;
 - a trellis decoding unit for performing trellis decoding on a symbol of the determined level;
 - a nonsystematic Reed Solomon (NRS) decoding unit for performing NRS decoding on the trellis-decoded robust data and for performing robust data error correction on the trellis-decoded robust data; and
 - a restoring unit for restoring a digital video data stream with respect to the trellis-decoded general data and the NRS-decoded robust data.
2. (previously presented) The DTV receiver as recited in claim 1, wherein the restoring unit includes:
 - a packet formatting unit for reconstructing a packet with respect to the robust data;
 - a data deinterleaving unit for deinterleaving the reconstructed robust data;
 - an RS decoding unit for correcting a forward error with respect to the general data and the robust data; and
 - a data derandomizing unit for derandomizing the RS-decoded data.
3. (currently amended) The DTV receiver as recited in claim 2, wherein the restoring unit further includes
 - a controller for computing a delay time that is the delay between the robust data and the general data, the delay time including delay caused by [[for]] NRS decoding and packet reconstruction ~~with respect to the robust data~~, and

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the data derandomizing unit performs derandomization in consideration of the delay time.

4. (previously presented) A Digital Television (DTV) receiving method, comprising:
receiving a transmission signal including general data and robust data and
converting the transmission signal into a base-band signal;
determining a symbol level of the transmission signal;
performing trellis decoding on a symbol of the determined level;
performing nonsystematic Reed Solomon (NRS) decoding on the trellis-decoded
robust data and performing robust data error correction on the trellis-decoded robust
data; and
restoring a digital video data stream with respect to the trellis-decoded general
data and the NRS-decoded robust data.
5. (previously presented) The method as recited in claim 4, wherein restoring the
digital video data stream comprises:
reconstructing a packet with respect to the robust data;
deinterleaving the reconstructed robust data;
performing forward error correction with respect to the general data and the
robust data; and
derandomizing the RS-decoded data.
6. (previously presented) The method as recited in claim 5, wherein restoring the
digital video data stream further comprises:
computing delay time for NRS decoding and packet reconstruction with respect
to the robust data, and
derandomization is performed in consideration of the delay time in the
derandomizing of the RS-decoded data.
7. **(new) The DTV receiver as recited in claim 1, wherein the NRS decoding is
performed before parity bytes, which are added to the robust data to secure**

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backwards compatibility, are removed.